

MEGA 1510 Universal Testing Machine is professionally designed for the determination of mechanical properties including tensile strength, peel strength, tear strength, heat seal strength, adhesiveness and bending performance of plastic films, composite films, flexible packaging materials, adhesive tapes, rubber and paper, etc. It can be also used to measure the compression and bending performance of corrugated box, honeycomb panel box, flexible packaging bag, plastic container (for edible oil or mineral water), paper bucket, paper can, integrated buoyancy can (IBC) and hollow container, etc.



Professional Technology

- Double-column ball screw driving mechanism ensures high precision and steady working of the instrument
- Multiple testing modes are available including tensile strength, deformation, peeling, tearing and compression resistance, etc. which can meet the testing demands of the customers
- Load cells with different test ranges and stepless speed change from 1 to 500mm/min can meet the requirements for various testing conditions
- The embedded computer controller system, with membrane switch is convenient for instrument operation
- Compact and integrated design of the instrument can meet the requirements for various operating environments
- Multi-level over-travel protection, overload protect, automatic position reset and intelligent error alerts for safe test operation
- Embedded computer controlled system effectively guarantees the system security and the reliability of data management as well as test operation
- The instrument can be operated with one monitor, one mouse and one keyboard, not requiring a computer
- The system is equipped with four USB ports and two net connection interfaces, which is convenient to data transmission
- Professional operating software supports superposition analysis of test curves of group specimens and statistical analysis of maximum, minimum, average and standard deviation of test results

Test Standard

This test instrument conforms to the following standards:

ISO 37, ASTM E4, ASTM D882, ASTM D 1938, ASTM D333, ASTM F88, ASTM F904, GB 8808, GB/T 1040.1-2006, GB/T 1040.2-2006, GB/T 1040.3-2006, GB/T 1040.4-2006, GB/T 1040.5-2008, GB/T 4850-2002, GB/T 12914-2008, GB/T 17200, GB/T 16578.1-2008, GB/T 7122, GB/T 2790, GB/T 2791, GB/T 2792, GB 14232.1-2004, GB 15811-2001, GB/T 1962.1-2001, GB 2637-1995, GB 15810-2001, QB/T 2358, QB/T 1130 , JIS P8113, YY0613-2007, YBB00042005, YBB00112004

Applications

This instrument is equipped with more than 100 grips for tests of more than 1000 materials. And customization is also available for special material tests. Examples of instrument applications:

Basic Application	Extended Application (Additional Accessories Required)			
Tensile Test	Opening Resistance Test of Combined Covers	Tear Test of ZD - Type Caps	Opening Resistance Test of Oral Liquid Caps	90 Degree Pullout Test of Infusion Bag Caps
Test of Tensile Strength and Elongation Rate	Tear Test of Adhesive Binding Books	Tear Test of Adhesives	23 Degree Pullout Test of Bottle Caps	Pullout Test of Closures of Infusion Bags
Test of Tensile Strength at Break	90 Degree Peel Test of Adhesive Tape	Adhesive Strength Test (hard)	90 Degree Peel Test of Water-soluble Plasters	Opening Resistance Test of Jelly Cups and Yogurt Cups
Tear Resistance Test	Adhesive Strength Test (soft)	Pullout Test of Tooth Brush Hair	Peel Test of Flexible Tube Caps	Removal Force of Pipes and Pipe Joints
Heat Seal Strength Test	Pullout Test of Cosmetic Brush Hair	Pullout Test of Rubber Closures	Tensile Strength of Ropes at Break	Separating Force of Protection Films
90 Degree Peel Test	Peel Test of Milk Cup Films	Tear Test of Heatseal Films	45 Degree Peel Test of Bottle Membranes	Tensile Strength of Zip-lock Bag Mouth
180 Degree Peel Test	Peel Test of Release Paper	135 Degree Peel Test of Plugs	Unwrapping Force of Adhesive Tapes	Tear Test Using Trouser Method
	20 Degree Peel Test	Peeling Grips of Floating Rollers	Eccentric Grips	Wide Sample Grips
	Japanese Sample Grips	British Sample Grips		
Compression Resistance Test	Compression Resistance Tests of Containers	Compression Resistance Tests of Sponge		

Technical Specifications

Specifications	MEGA 1510
Load Cell Capacity	10 KN
Accuracy	1% FS
Test Speed	1-500mm/min (Stepless Speed Change)
Number of Specimens	1
Clamping Way	Pneumatic Specimen Clamp or Manual Clamp
Stroke	800mm
Gas Supply Pressure	0.6MPa~0.7MPa (Outside of Supply Scope)
Port Size	Φ 6mm PU Tubing

Instrument Dimension	850 mm (L) × 700 mm (W) × 1630 mm (H)
Power Supply	AC 120V 60Hz / AC 220V 50Hz
Net Weight	150 kg

Configurations

Standard Configurations	Instrument, Professional Software, Pedal Switch, LCD Monitor, Keyboard, Mouse, Pneumatic Clamping System, Wireless Data Interface, Wireless Data Module, Micro-printer
Optional Parts	High Gain Antenna, Wedge-shape Sample Clamp, Sample Clamp for Compression Resistance Test, Lever-type Pneumatic Specimen Clamp, Installing Support
Note	<ol style="list-style-type: none">1. The gas supply port of the instrument is $\Phi 6$ mm PU tubing;2. Customers will need to prepare gas supply.

Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink reserves the rights of final interpretation and revision.